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SUPERFUND DIVISION

***Ambient Air Monitoring Report***

***Rivermines  
Park Hills, Missouri***

***Prepared for  
The Doe Run Company***

***November 2012***



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February 18, 2013

Mr. Mark Nations  
The Doe Run Company  
P.O. Box 1633  
Desloge, Missouri 63601

**Re: Ambient Air Monitoring Report – Rivermines Site**

Dear Mr. Nations:

Please find attached the November 2012 “*Ambient Air Monitoring Report*” for The Doe Run Company at the Rivermines Sites, located near Park Hills, Missouri.

This report will include the following:

- **Glossary of Terms** – Listing of the abbreviations used for each parameter and unit.
- **Ambient Air Quality Standards** – Lists the maximum allowable concentrations for the measured parameters.
- **TSP, Lead & PM<sub>10</sub> Particulate Summaries** – Includes the averages of each monitored parameter, which relates to the federal standards.
- **Particulate and Lead Analysis Spreadsheets.**
- **Lab Results (lead & cadmium)** – Lab reports from Inovatia Laboratories, LLC.
- **Meteorological Data Printouts** – This supplies printouts of each parameter.

Barr Engineering Company offers this report as an independent laboratory. This includes the weighing of filters, obtaining lead and cadmium analysis, compiling the data, and preparing the report. No interpretation of the data or analysis of the results is implied or intended. Should you have any questions regarding this report, please call.

Respectfully,

A handwritten signature in cursive script that reads "Richard J. Campbell".

Richard J. Campbell, PE  
Chemical Engineer  
Senior Environmental Consultant

c: Kathy Rangen  
Jason Gunter  
Ty Morris

## GLOSSARY OF TERMS

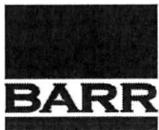
$\mu\text{g}/\text{m}^3$	Micrograms per Cubic Meter
mph	Miles per Hour
Wind Direction	Degrees from True North
TSP	Total Suspended Particulate
PM <sub>10</sub>	Particulate Matter - 10 Microns or Less
mmHg	Millimeters of Mercury

## NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS)

PM <sub>10</sub> – Particulate Matter	24-Hour*	Annual Maximum	150 $\mu\text{g}/\text{m}^3$
Lead	Calendar Quarter	Arithmetic Mean	1.5 $\mu\text{g}/\text{m}^3$
Lead	Rolling 3-Month Average	Arithmetic Mean	0.15 $\mu\text{g}/\text{m}^3$

TSP (Total Suspended Particulate) – There are no Federal Standards that apply solely for TSP.

\*This standard must be exceeded more than once a year to constitute a violation.



## TSP and Lead Concentration Summary

Rivermines  
Park Hills, Missouri

2012

Date	TSP Big River #4 ( $\mu\text{g}/\text{m}^3$ )	TSP South #1 ( $\mu\text{g}/\text{m}^3$ )	TSP North #2 ( $\mu\text{g}/\text{m}^3$ )	TSP East #3 ( $\mu\text{g}/\text{m}^3$ )	LEAD Big River #4 ( $\mu\text{g}/\text{m}^3$ )	LEAD South #1 ( $\mu\text{g}/\text{m}^3$ )	LEAD North #2 ( $\mu\text{g}/\text{m}^3$ )	LEAD East #3 ( $\mu\text{g}/\text{m}^3$ )
11/1/12	54	91	34	37	0.044	0.200	0.011	0.036
11/2/12	INVALID	44	34	31	INVALID	0.162	0.000	0.006
11/5/12	24	15	14	15	0.000	0.000	0.006	0.000
11/6/12	8	13	6	9	0.013	0.034	0.023	0.021
11/7/12	19	51	7	9	0.021	0.188	0.000	0.006
11/8/12	16	19	15	16	0.000	0.000	0.034	0.000
11/9/12	19	22	25	21	0.000	0.000	0.117	0.000
11/12/12	11	22	7	11	0.007	0.019	0.000	0.011
11/13/12	55	27	14	14	0.018	0.027	0.000	0.009
11/14/12	27	23	14	12	0.021	0.026	0.000	0.000
11/15/12	35	INVALID	26	18	0.029	INVALID	0.040	0.018
11/16/12	31	33	32	30	0.015	0.022	0.007	0.011
11/19/12	22	23	23	19	0.022	0.013	0.060	0.028
11/20/12	88	108	33	37	0.138	0.138	0.026	0.046
11/26/12	41	38	26	27	0.021	0.028	0.006	0.008
11/27/12	43	43	27	23	0.060	0.082	0.082	0.018
11/28/12	47	46	22	24	0.044	0.043	0.012	0.017
11/29/12	19	19	14	15	0.010	0.000	0.021	0.000
11/30/12	23	26	27	24	0.000	0.000	0.053	0.006
<hr/>								
Monthly Average	32	37	21	21	0.026	0.055	0.026	0.013
Oct 2012					0.013	0.107	0.037	0.013
Sept 2012					0.023	0.048	0.028	0.012
Rolling 3-month Average					0.02	0.07	0.03	0.01
					<b>3-month Average Lead NAAQS <math>\mu\text{g}/\text{m}^3</math> 0.15</b>			

Please see the particulate analysis sheets for explanations of missing or invalid data.

Note: A summary of the Big River #4 sampler data is also included, because it was part of the QA plan.



## Particulate Summary

Rivermines  
Park Hills, Missouri

2012

Date	PM <sub>10</sub> Big River #4 ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> South #1 ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> North #2 ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> East #3 ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> NAAQS ( $\mu\text{g}/\text{m}^3$ )
2-Nov	28	38	24	18	150
5-Nov	10	10	10	11	150
8-Nov	11	14	9	10	150
11-Nov	6	7	11	7	150
14-Nov	21	17	11	8	150
17-Nov	19	23	24	20	150
20-Nov	23	30	28	22	150
26-Nov	25	25	18	18	150
29-Nov	12	14	10	9	150
<b>Monthly Average</b>	17	20	16	14	

Please see the particulate analysis sheets for explanations of missing or invalid data.

Note: A summary of the Big River #4 sampler data is also included, because it was part of the QA plan.

*Particulate and Lead Analysis*





# TSP and Lead Analysis

The Doe Run Company

SAMPLER ID P2940

Elvins Rivermines Site #1 by Office

Sample Date 2012	Filter ID	TSP Filter Net Wt. g	Lead Total Wt. mg	T <sub>av</sub> C	P <sub>av</sub> mmHg	P <sub>i</sub> mmHg	Ratio P <sub>i</sub> /P <sub>a</sub>	Q <sub>a</sub> m <sup>3</sup> /min	Q <sub>std</sub> m <sup>3</sup> /min	Elapsed Time hr	Sample Volume V <sub>std</sub> m <sup>3</sup>	Mass Concentrations TSP µg/m <sup>3</sup> Lead µg/m <sup>3</sup>	
11/1/2012	8612309	0.1634	361	9	743.7	34.2	0.954	1.225	1.267	23.75	1805	91	0.200
11/2/2012	8612301	0.0804	292	9	744.9	34.2	0.954	1.225	1.269	23.75	1808	44	0.162
11/5/2012	8614891	0.0276	< 10	5	746.8	33.7	0.955	1.219	1.281	23.83	1832	15	0.000
11/6/2012	8614881	0.0232	62	6	744.9	33.8	0.955	1.220	1.277	23.71	1816	13	0.034
11/7/2012	8614872	0.0925	342	6	746.6	33.8	0.955	1.219	1.280	23.71	1821	51	0.188
11/8/2012	8614862	0.0341	< 10	6	748.6	33.9	0.955	1.221	-1.282	23.50	1808	19	0.000
11/9/2012	8614853	0.0383	< 10	16	745.2	35.1	0.953	1.237	1.250	23.54	1766	22	0.000
11/12/2012	8614847	0.0412	35	2	752.8	33.4	0.956	1.213	1.300	23.65	1845	22	0.019
11/13/2012	8614834	0.0499	51	2	756.4	33.3	0.956	1.213	1.308	23.87	1873	27	0.027
11/14/2012	8614825	0.0422	48	2	755.1	33.3	0.956	1.213	1.306	23.85	1868	23	0.026
11/15/2012	8614815	0.0579	85	3	753.7	33.4	0.956	1.215	1.300	22.77	1777	INVALID	INVALID
11/16/2012	8614806	0.0602	40	5	755.2	33.6	0.955	1.218	1.298	23.45	1827	33	0.022
11/19/2012	8639696	0.0422	23	9	750.3	34.2	0.954	1.226	1.277	23.81	1824	23	0.013
11/20/2012	8639687	0.1968	251	10	747.8	34.3	0.954	1.226	1.271	23.82	1817	108	0.138
11/26/2012	8639678	0.0692	52	3	749.0	33.4	0.955	1.214	1.292	23.78	1843	38	0.028
11/27/2012	8639668	0.0794	153	-1	754.0	32.9	0.956	1.207	1.313	23.70	1867	43	0.082
11/28/2012	8639658	0.0858	80	1	754.0	33.2	0.956	1.212	1.306	23.57	1846	46	0.043
11/29/2012	8639648	0.0341	< 10	7	749.9	34.0	0.955	1.223	1.282	23.75	1827	19	0.000
11/30/2012	8639640	0.0463	< 10	13	747.7	34.6	0.954	1.231	1.263	23.75	1800	26	0.000

Data Captured	TSP	Lead
Valid Samples:	18	18
Scheduled Samples:	19	19
Percent Data Captured:	95%	95%

Monthly Average:	37	0.055
Standard Deviation:	26	0.069
Maximum:	108	0.200
Minimum:	13	0.000

## NOTES

11/15/2012 - INVALID - Elapsed time exceeds tolerance of 24 ±1 hours  
 11/21/2012 - 11/23/2012 - Holidays - No samples scheduled

## DEFINITIONS and CALCULATIONS

T<sub>av</sub> = average temperature in degrees Celsius  
 P<sub>av</sub> = average station pressure in millimeters of mercury  
 P<sub>i</sub> = ((Temp In °Kelvin \* Temp Slope) + Temp Int) \* 1.868  
 P<sub>i</sub> = ((Temp in °Kelvin \* 0.0664) + (-0.4213)) \* 1.868  
 P<sub>i</sub>/P<sub>a</sub> = pressure ratio of P<sub>i</sub> and P<sub>av</sub> = 1 - P<sub>i</sub>/P<sub>av</sub>  
 Q<sub>a</sub> = look up table volumetric flow rate  
 Q<sub>std</sub> = total sample volumetric flow rate corrected to standard conditions  
 V<sub>std</sub> = total sample volume corrected to standard conditions  
 TSP = mass concentration in µg/std m<sup>3</sup>  
 Lead = mass concentration in µg/std m<sup>3</sup>



# TSP and Lead Analysis

The Doe Run Company

SAMPLER ID P2941

Elvins Rivermines Site #2 Wood & Barton

Sample Date 2012	Filter ID	TSP Filter Net Wt. g	Lead Total Wt. mg	T <sub>av</sub> C	P <sub>av</sub> mmHg	P <sub>f</sub> mmHg	Ratio P <sub>f</sub> /P <sub>a</sub>	Q <sub>a</sub> m <sup>3</sup> /min	Q <sub>std</sub> m <sup>3</sup> /min	Elapsed Time hr	Sample Volume V <sub>std</sub> m <sup>3</sup>	Mass Concentrations	
												TSP µg/m <sup>3</sup>	Lead µg/m <sup>3</sup>
11/1/2012	8612311	0.0608	20	9	743.7	34.2	0.954	1.208	1.250	23.51	1763	34	0.011
11/2/2012	8612303	0.0605	< 10	9	744.9	34.2	0.954	1.208	1.252	23.52	1767	34	0.000
11/5/2012	8614893	0.0252	12	5	746.8	33.7	0.955	1.203	1.264	23.46	1779	14	0.006
11/6/2012	8614883	0.0103	41	6	744.9	33.8	0.955	1.203	1.259	23.61	1784	6	0.023
11/7/2012	8614874	0.0117	< 10	6	746.6	33.8	0.955	1.203	1.263	23.61	1789	7	0.000
11/8/2012	8614864	0.0261	60	6	748.6	33.9	0.955	1.204	1.265	23.40	1776	15	0.034
11/9/2012	8614855	0.0444	203	16	745.2	35.1	0.953	1.220	1.233	23.58	1744	25	0.117
11/12/2012	8614849	0.0134	< 10	2	752.8	33.4	0.956	1.197	1.283	23.41	1802	7	0.000
11/13/2012	8614836	0.0262	< 10	2	756.4	33.3	0.956	1.197	1.290	23.61	1828	14	0.000
11/14/2012	8614827	0.0248	< 10	2	755.1	33.3	0.956	1.197	1.288	23.56	1821	14	0.000
11/15/2012	8614817	0.0472	74	3	753.7	33.4	0.956	1.199	1.283	23.70	1825	26	0.040
11/16/2012	8614808	0.0576	12	5	755.2	33.6	0.955	1.202	1.281	23.55	1810	32	0.007
11/19/2012	8639698	0.0413	107	9	750.3	34.2	0.954	1.209	1.260	23.46	1773	23	0.060
11/20/2012	8639689	0.0586	46	10	747.8	34.3	0.954	1.210	1.254	23.58	1774	33	0.026
11/26/2012	8639680	0.0460	11	3	749.0	33.4	0.955	1.198	1.275	23.49	1797	26	0.006
11/27/2012	8639670	0.0489	151	-1	754.0	32.9	0.956	1.192	1.296	23.57	1833	27	0.082
11/28/2012	8639660	0.0402	21	1	754.0	33.2	0.956	1.196	1.289	23.62	1826	22	0.012
11/29/2012	8639650	0.0260	37	7	749.9	34.0	0.955	1.206	1.265	23.59	1790	14	0.021
11/30/2012	8639642	0.0482	93	13	747.7	34.6	0.954	1.215	1.246	23.61	1766	27	0.053

<b>Data Captured</b>	<b>TSP</b>	<b>Lead</b>	<b>Monthly Average:</b>	<b>21</b>	<b>0.026</b>
Valid Samples:	19	19	Standard Deviation:	9	0.032
Scheduled Samples:	19	19	Maximum:	34	0.117
Percent Data Captured:	100%	100%	Minimum:	6	0.000

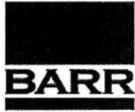
**NOTES**

11/21/2012 - 11/23/2012 - Holidays - No samples scheduled

**DEFINITIONS and CALCULATIONS**

T<sub>av</sub> = average temperature in degrees Celsius  
P<sub>av</sub> = average station pressure in millimeters of mercury  
P<sub>f</sub> = (((Temp in °Kelvin \* Temp Slope) + Temp Int.)) \* 1.868  
P<sub>f</sub> = ((Temp In °Kelvin \* 0.0664) + (-0.4213)) \* 1.868  
P<sub>f</sub>/P<sub>a</sub> = pressure ratio of P<sub>f</sub> and P<sub>av</sub> = 1 - P<sub>f</sub>/P<sub>av</sub>

Q<sub>a</sub> = look up table volumetric flow rate  
Q<sub>std</sub> = total sample volumetric flow rate corrected to standard conditions  
V<sub>std</sub> = total sample volume corrected to standard conditions  
TSP = mass concentration in µg/std m<sup>3</sup>  
Lead = mass concentration in µg/std m<sup>3</sup>



# TSP and Lead Analysis

The Doe Run Company

SAMPLER ID P4475

Elvins Rivermines Site #3 WTP

Sample Date 2012	Filter ID	TSP Filter Net Wt. g	Lead Total Wt. mg	T <sub>av</sub> C	P <sub>av</sub> mmHg	P <sub>i</sub> mmHg	Ratio P <sub>i</sub> /P <sub>a</sub>	Q <sub>a</sub> m <sup>3</sup> /min	Q <sub>std</sub> m <sup>3</sup> /min	Elapsed Time hr	Sample Volume V <sub>std</sub> m <sup>3</sup>	Mass Concentrations TSP µg/m <sup>3</sup>	Lead µg/m <sup>3</sup>
11/1/2012	8612310	0.0665	64	9	743.7	34.2	0.954	1.205	1.247	23.71	1774	37	0.036
11/2/2012	8612302	0.0545	11	9	744.9	34.2	0.954	1.205	1.249	23.72	1777	31	0.006
11/5/2012	8614892	0.0267	< 10	5	746.8	33.7	0.955	1.200	1.262	23.65	1790	15	0.000
11/6/2012	8614882	0.0159	38	6	744.9	33.8	0.955	1.201	1.257	23.73	1789	9	0.021
11/7/2012	8614873	0.0154	11	6	746.6	33.8	0.955	1.201	1.260	23.60	1785	9	0.006
11/8/2012	8614863	0.0290	< 10	6	748.6	33.9	0.955	1.202	1.262	23.49	1779	16	0.000
11/9/2012	8614854	0.0367	< 10	16	745.2	35.1	0.953	1.218	1.230	23.59	1742	21	0.000
11/12/2012	8614848	0.0206	19	2	752.8	33.4	0.956	1.195	1.281	23.59	1813	11	0.011
11/13/2012	8614835	0.0256	16	2	756.4	33.3	0.956	1.195	1.288	23.70	1831	14	0.009
11/14/2012	8614826	0.0217	< 10	2	755.1	33.3	0.956	1.195	1.286	23.64	1824	12	0.000
11/15/2012	8614816	0.0329	33	3	753.7	33.4	0.956	1.196	1.281	23.72	1823	18	0.018
11/16/2012	8614807	0.0538	20	5	755.2	33.6	0.955	1.199	1.279	23.73	1820	30	0.011
11/19/2012	8639697	0.0337	50	9	750.3	34.2	0.954	1.207	1.257	23.70	1788	19	0.028
11/20/2012	8639688	0.0655	81	10	747.8	34.3	0.954	1.207	1.252	23.78	1786	37	0.046
11/26/2012	8639679	0.0489	14	3	749.0	33.4	0.955	1.196	1.272	23.74	1812	27	0.008
11/27/2012	8639669	0.0428	33	-1	754.0	32.9	0.956	1.189	1.293	23.66	1836	23	0.018
11/28/2012	8639659	0.0442	30	1	754.0	33.2	0.956	1.193	1.286	23.64	1824	24	0.017
11/29/2012	8639649	0.0275	< 10	7	749.9	34.0	0.955	1.203	1.262	23.73	1797	15	0.000
11/30/2012	8639641	0.0420	11	13	747.7	34.6	0.954	1.212	1.244	23.84	1779	24	0.006

Data Captured	TSP	Lead
Valid Samples:	19	19
Scheduled Samples:	19	19
Percent Data Captured:	100%	100%

Monthly Average:	21	0.013
Standard Deviation:	9	0.013
Maximum:	37	0.046
Minimum:	9	0.000

## NOTES

11/21/2012 - 11/23/2012 - Holidays - No samples scheduled

Filter Blank	Nominal Airflow	Tolerance ≤5 µg/m <sup>3</sup>
11/27/2012	8639665 -0.0002 < 10 25 760.0 36.2 0.952 1.234 1.233 24.00 1776	-0.1 0.000

## DEFINITIONS and CALCULATIONS

T<sub>av</sub> = average temperature in degrees Celsius  
P<sub>av</sub> = average station pressure in millimeters of mercury  
P<sub>i</sub> = (((Temp in °Kelvin \* Temp Slope) + Temp Int.)) \* 1.868  
P<sub>i</sub> = ((Temp in °Kelvin \* 0.0664) + (-0.4213)) \* 1.868  
P<sub>i</sub>/P<sub>a</sub> = pressure ratio of P<sub>i</sub> and P<sub>av</sub> = 1 - P<sub>i</sub>/P<sub>av</sub>

Q<sub>a</sub> = look up table volumetric flow rate  
Q<sub>std</sub> = total sample volumetric flow rate corrected to standard conditions  
V<sub>std</sub> = total sample volume corrected to standard conditions  
TSP = mass concentration in µg/std m<sup>3</sup>  
Lead = mass concentration in µg/std m<sup>3</sup>



# TSP and Lead Analysis

The Doe Run Company

SAMPLER ID P6609

Big River Site #4 - QA

Sample Date 2012	Filter ID	TSP Filter Net Wt. g	Lead Total Wt. mg	T <sub>av</sub> C	P <sub>av</sub> mmHg	P <sub>r</sub> mmHg	Ratio P <sub>r</sub> /P <sub>a</sub>	Q <sub>a</sub> m <sup>3</sup> /min	Q <sub>std</sub> m <sup>3</sup> /min	Elapsed Time hr	Sample Volume V <sub>std</sub> m <sup>3</sup>	Mass Concentrations TSP µg/m <sup>3</sup>	Lead µg/m <sup>3</sup>
11/1/2012	8612322	0.1034	53	9	743.7	34.2	0.954	1.210	1.252	23.76	1785	58	0.030
11/6/2012	8614885	0.0138	25	6	744.9	33.8	0.955	1.205	1.261	23.54	1782	8	0.014
11/8/2012	8614866	0.0260	12	6	748.6	33.9	0.955	1.206	1.267	23.63	1796	14	0.007
11/13/2012	8614838	0.0976	35	2	756.4	33.3	0.956	1.200	1.293	23.59	1830	53	0.019
11/15/2012	8614819	0.0631	48	3	753.7	33.4	0.956	1.201	1.286	23.61	1821	35	0.027
11/20/2012	8639700	0.1498	250	10	747.8	34.3	0.954	1.212	1.257	23.61	1780	84	0.140
11/27/2012	8639672	0.0818	119	-1	754.0	32.9	0.956	1.194	1.298	23.54	1834	45	0.065
11/29/2012	8639652	0.0313	17	7	749.9	34.0	0.955	1.208	1.267	23.60	1794	17	0.009

Valid Samples:	8	8
Scheduled Samples:	8	8
Percent Data Captured:	100%	100%

Monthly Average:	39	0.039
Standard Deviation:	26	0.045
Maximum:	84	0.140
Minimum:	8	0.007

## NOTES

11/22/2012 - Holiday - No samples scheduled

## DEFINITIONS and CALCULATIONS

T<sub>av</sub> = average temperature in degrees Celcius  
P<sub>av</sub> = average station pressure in millimeters of mercury  
P<sub>r</sub> = (((Temp in °Kelvin \* Temp Slope)+Temp Int.))\*1.868  
P<sub>r</sub> = ((Temp in °Kelvin \* 0.0664)+(-0.4213))\*1.868  
P<sub>r</sub>/P<sub>a</sub> = pressure ratio of P<sub>r</sub> and P<sub>av</sub> = 1 - P<sub>r</sub>/P<sub>av</sub>

Q<sub>a</sub> = look up table volumetric flow rate  
Q<sub>std</sub> = total sample volumetric flow rate corrected to standard conditions  
V<sub>std</sub> = total sample volume corrected to standard conditions  
TSP = mass concentration in µg/std m<sup>3</sup>  
Lead = mass concentration in µg/std m<sup>3</sup>











*Lab Results (Lead and Cadmium)*





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### ANALYSIS REPORT

**Client Information:**  
Barr Engineering Company  
7390 Ohms Lane  
Edina, MN 55439-2330

**Chain of Custody No.:** 12-1171  
**Date Received:** 11/30/12  
**Analysis Method:** 40 CFR §50  
Appendix G

**Location** Elvins River  
Mines

Lab No.	Filter ID	Date	Site	µg Pb/Filter	µg Cd/Filter	Date - Analyst
125762	8614847	11/12/12	#1 South - Office	35	< 10	12/04/12 - DS
125763	8614849	11/12/12	#2 North - W&B	< 10	< 10	12/04/12 - DS
125764	8614848	11/12/12	#3 East - WTP	19	< 10	12/04/12 - DS
125765	8614834	11/13/12	#1 South - Office	51	< 10	12/04/12 - DS
125766	8614836	11/13/12	#2 North - W&B	< 10	< 10	12/04/12 - DS
125767	8614835	11/13/12	#3 East - WTP	16	< 10	12/04/12 - DS
125768	8614825	11/14/12	#1 South - Office	48	< 10	12/04/12 - DS
125769	8614827	11/14/12	#2 North - W&B	< 10	< 10	12/04/12 - DS
125770	8614826	11/14/12	#3 East - WTP	< 10	< 10	12/04/12 - DS
125771	8614815	11/15/12	#1 South - Office	85	< 10	12/04/12 - DS
125772	8614817	11/15/12	#2 North - W&B	74	< 10	12/04/12 - DS
125773	8614816	11/15/12	#3 East - WTP	33	< 10	12/04/12 - DS
125774	8614806	11/16/12	#1 South - Office	40	< 10	12/04/12 - DS
125775	8614808	11/16/12	#2 North - W&B	12	< 10	12/04/12 - DS
125776	8614807	11/16/12	#3 East - WTP	20	< 10	12/04/12 - DS

Submitted by: \_\_\_\_\_

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### ANALYSIS REPORT

**Client Information:**

Barr Engineering Company  
7390 Ohms Lane  
Edina, MN 55439-2330

**Chain of Custody No.:** 12-1222**Date Received:** 12/13/12**Analysis Method:** 40 CFR §50  
Appendix G**Location****Elvins River  
Mines**

Lab No.	Filter ID	Date	Site	µg Pb/Filter	µg Cd/Filter	Date - Analyst
125993	8639696	11/19/12	#1 South - Office	23	< 10	12/18/12 - DS
125994	8639698	11/19/12	#2 North - W&B	107	< 10	12/18/12 - DS
125995	8639697	11/19/12	#3 East - WTP	50	< 10	12/18/12 - DS
125996	8639687	11/20/12	#1 South - Office	251	< 10	12/18/12 - DS
125997	8639689	11/20/12	#2 North - W&B	46	< 10	12/18/12 - DS
125998	8639688	11/20/12	#3 East - WTP	81	< 10	12/18/12 - DS
125999	8639678	11/26/12	#1 South - Office	52	< 10	12/18/12 - DS
126000	8639680	11/26/12	#2 North - W&B	11	< 10	12/18/12 - DS
126001	8639679	11/26/12	#3 East - WTP	14	< 10	12/18/12 - DS
126002	8639668	11/27/12	#1 South - Office	153	< 10	12/18/12 - DS
126003	8639670	11/27/12	#2 North - W&B	151	< 10	12/18/12 - DS
126004	8639665	11/27/12	#3 East - WTP	< 10	< 10	12/18/12 - DS
126005	8639669	11/27/12	#3 East - WTP	33	< 10	12/18/12 - DS
126006	8639658	11/28/12	#1 South - Office	80	< 10	12/18/12 - DS
126007	8639660	11/28/12	#2 North - W&B	21	< 10	12/18/12 - DS
126008	8639659	11/28/12	#3 East - WTP	30	< 10	12/18/12 - DS
126009	8639648	11/29/12	#1 South - Office	< 10	< 10	12/18/12 - DS
126010	8639650	11/29/12	#2 North - W&B	37	< 10	12/18/12 - DS
126011	8639649	11/29/12	#3 East - WTP	< 10	< 10	12/18/12 - DS
126012	8639640	11/30/12	#1 South - Office	< 10	< 10	12/18/12 - DS
126013	8639642	11/30/12	#2 North - W&B	93	< 10	12/18/12 - DS
126014	8639641	11/30/12	#3 East - WTP	11	< 10	12/18/12 - DS

Submitted by: \_\_\_\_\_

  
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### ANALYSIS REPORT

**Client Information:**  
Barr Engineering Company  
7390 Ohms Lane  
Edina, MN 55439-2330

**Chain of Custody No.:** 12-1166  
**Date Received:** 11/28/12  
**Analysis Method:** 40 CFR §50  
Appendix G

**Location** Big River

Lab No.	Filter ID	Date	Site	µg Pb/Filter	µg Cd/Filter	Date - Analyst
125663	8612312	11/01/12	#4 Primary	79	< 10	12/03/12 - DS
125664	8612322	11/01/12	#4 QA	53	< 10	12/03/12 - DS
125665	8612304	11/02/12	#4 Primary	29	< 10	12/03/12 - DS
125666	8614894	11/05/12	#4 Primary	< 10	< 10	12/03/12 - DS
125667	8614884	11/06/12	#4 Primary	24	< 10	12/03/12 - DS
125668	8614885	11/06/12	#4 QA	25	< 10	12/03/12 - DS
125669	8614875	11/07/12	#4 Primary	38	< 10	12/03/12 - DS
125670	8614865	11/08/12	#4 Primary	< 10	< 10	12/03/12 - DS
125671	8614866	11/08/12	#4 QA	12	< 10	12/03/12 - DS
125672	8614856	11/09/12	#4 Primary	< 10	< 10	12/03/12 - DS

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**ANALYSIS REPORT**

**Client Information:**  
Barr Engineering Company  
7390 Ohms Lane  
Edina, MN 55439-2330

**Chain of Custody No.:** 12-1171  
**Date Received:** 11/30/12  
**Analysis Method:** 40 CFR §50  
Appendix G

**Location** **Big River**

Lab No.	Filter ID	Date	Site	µg Pb/Filter	µg Cd/Filter	Date - Analyst
125755	8614850	11/12/12	#4 Primary	13	< 10	12/04/12 - DS
125756	8614837	11/13/12	#4 Primary	34	< 10	12/04/12 - DS
125757	8614838	11/13/12	#4 QA	35	< 10	12/04/12 - DS
125758	8614828	11/14/12	#4 Primary	39	< 10	12/04/12 - DS
125759	8614818	11/15/12	#4 Primary	52	< 10	12/04/12 - DS
125760	8614819	11/15/12	#4 QA	48	< 10	12/04/12 - DS
125761	8614809	11/16/12	#4 Primary	28	< 10	12/04/12 - DS

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### ANALYSIS REPORT

**Client Information:**

Barr Engineering Company  
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Edina, MN 55439-2330

**Chain of Custody No.:** 12-1222  
**Date Received:** 12/13/12  
**Analysis Method:** 40 CFR §50  
Appendix G  
**Location** Big River

Lab No.	Filter ID	Date	Site	µg Pb/Filter	µg Cd/Filter	Date - Analyst
125983	8639699	11/19/12	#4 Primary	40	< 10	12/18/12 - DS
125984	8639690	11/20/12	#4 Primary	249	< 10	12/18/12 - DS
125985	8639700	11/20/12	#4 QA	250	< 10	12/18/12 - DS
125986	8639681	11/26/12	#4 Primary	38	< 10	12/18/12 - DS
125987	8639671	11/27/12	#4 Primary	113	< 10	12/18/12 - DS
125988	8639672	11/27/12	#4 QA	119	< 10	12/18/12 - DS
125989	8639661	11/28/12	#4 Primary	82	< 10	12/18/12 - DS
125990	8639651	11/29/12	#4 Primary	17	< 10	12/18/12 - DS
125991	8639652	11/29/12	#4 QA	17	< 10	12/18/12 - DS
125992	8639643	11/30/12	#4 Primary	< 10	< 10	12/18/12 - DS

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*Meteorological Data*

# Meteorological Report

## The Doe Run Company

### Wind Speed

Site Name: Rivermines

Average Interval: 01 Hour

Units: mph

Sampling Frequency: 01 Second

2012 Day	Hour																								24 Hour Avg	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Avg
1-Nov	0.5	0.4	1.0	1.2	0.4	2.0	1.2	0.1	0.3	1.7	3.3	2.9	2.3	3.0	2.4	2.0	1.4	0.7	0.1	0.1	0.3	0.4	1.5	0.7	3.3	1.3
2-Nov	0.2	1.3	1.9	0.1	2.6	3.0	1.2	2.3	3.4	2.9	2.8	3.1	3.9	2.7	3.3	3.8	2.3	1.2	1.0	0.9	0.7	0.6	1.0	0.4	3.9	1.9
3-Nov	1.2	2.9	1.1	1.2	1.5	2.1	1.4	1.5	2.7	2.5	3.1	6.5	7.9	7.8	8.3	9.2	7.5	7.1	5.5	4.0	0.5	0.1	0.1	0.5	9.2	3.6
4-Nov	1.2	4.0	3.3	2.5	3.1	1.9	2.3	1.6	2.3	2.6	1.6	3.0	1.8	2.0	1.0	1.1	1.7	0.4	0.1	0.1	0.0	0.0	0.1	1.0	4.0	1.6
5-Nov	1.7	0.8	0.2	0.3	0.9	1.3	1.8	5.5	6.5	4.3	4.3	4.3	4.2	3.0	2.6	3.2	2.4	2.7	3.4	3.0	3.0	2.2	1.7	1.6	6.5	2.7
6-Nov	0.9	0.1	0.7	0.5	1.0	0.4	1.0	1.5	2.8	2.9	4.5	3.6	4.9	5.7	3.9	3.4	3.0	3.0	2.4	0.9	0.6	1.0	1.0	1.2	5.7	2.1
7-Nov	0.7	3.5	0.3	0.4	1.8	1.4	5.6	5.7	9.1	9.4	10.2	9.9	8.1	7.7	6.5	4.9	2.8	1.3	0.1	0.1	0.0	0.1	0.6	0.3	10.2	3.8
8-Nov	0.0	0.2	0.4	1.7	0.4	0.1	0.0	0.2	0.1	5.0	7.3	6.5	6.8	6.1	5.7	5.9	4.8	3.6	3.5	3.9	2.8	6.4	6.4	6.8	7.3	3.5
9-Nov	6.0	6.3	5.7	6.4	8.1	8.0	6.4	5.4	7.7	7.9	9.5	9.3	8.3	11.0	11.0	8.0	8.4	8.9	9.8	10.2	10.2	11.8	9.6	10.3	11.8	8.5
10-Nov	9.0	8.6	8.0	7.5	8.2	7.3	5.2	5.1	3.7	7.6	9.8	11.8	11.4	13.0	13.6	13.0	10.6	10.6	10.4	12.4	13.7	13.9	14.1	13.7	14.1	10.1
11-Nov	12.5	9.3	10.1	11.4	11.5	10.8	10.6	11.6	12.4	15.7	17.3	14.4	16.2	15.8	11.4	10.1	4.8	3.2	2.5	1.5	0.5	0.1	6.8	6.3	17.3	9.5
12-Nov	6.2	7.5	7.4	6.3	7.9	4.4	3.7	3.0	4.5	5.7	6.1	6.4	6.5	6.9	6.0	5.4	3.0	0.7	0.2	0.0	0.1	0.0	0.2	0.3	7.9	4.1
13-Nov	1.6	2.0	0.5	0.2	0.0	0.1	0.7	1.2	0.2	0.7	0.5	1.4	3.1	4.4	2.0	1.6	1.8	1.2	1.7	0.4	0.0	0.1	0.1	0.2	4.4	1.1
14-Nov	0.1	0.1	0.0	0.2	0.0	0.2	0.1	0.1	0.5	0.8	1.5	2.1	1.9	2.0	2.2	2.4	1.7	0.6	0.0	0.3	0.1	0.0	0.0	0.1	2.4	0.7
15-Nov	0.0	0.3	0.1	0.4	0.0	0.6	0.5	0.0	0.0	0.3	0.8	1.0	1.3	2.4	1.4	0.2	0.1	0.2	0.1	0.6	0.1	0.0	0.1	0.1	2.4	0.4
16-Nov	0.1	0.0	0.1	0.2	0.2	0.0	0.8	0.7	0.2	0.1	1.6	3.2	3.1	2.3	2.5	2.3	1.5	0.8	0.0	0.0	0.1	0.0	0.1	0.1	3.2	0.8
17-Nov	0.1	0.1	0.0	0.6	1.0	1.0	0.2	1.3	0.6	0.4	1.0	1.1	2.5	5.0	3.7	1.7	0.8	1.3	0.2	0.0	0.0	0.1	0.1	0.1	5.0	1.0
18-Nov	0.0	0.0	0.0	0.1	0.7	0.3	0.1	0.1	0.2	0.5	1.3	1.4	2.0	4.9	4.9	6.1	3.6	0.5	0.8	0.1	0.2	0.2	0.1	0.1	6.1	1.2
19-Nov	0.1	0.2	0.2	0.1	0.3	0.3	0.1	0.3	0.1	3.6	6.9	7.4	5.8	6.5	5.6	3.8	3.2	2.4	1.0	0.6	3.9	1.7	0.1	0.2	7.4	2.3
20-Nov	0.1	0.0	0.2	0.1	0.1	0.0	0.1	0.0	0.1	2.6	3.1	3.9	5.6	6.2	6.5	5.9	5.6	0.2	0.0	0.2	0.2	0.1	0.1	0.1	6.5	1.7
21-Nov	0.2	0.1	0.3	1.3	0.4	0.6	1.2	0.7	1.0	0.3	0.6	1.3	1.3	2.6	2.5	1.9	2.6	0.8	4.4	3.9	5.4	5.5	5.1	4.4	5.5	2.0
22-Nov	0.6	0.1	0.3	0.2	1.0	2.6	1.5	0.3	2.7	9.0	12.1	11.2	8.6	9.0	8.9	10.7	9.4	7.2	5.3	3.0	4.7	8.0	5.4	5.3	12.1	5.3
23-Nov	6.4	12.0	7.5	7.2	1.7	1.7	2.4	3.6	9.2	14.0	8.8	8.9	8.7	8.8	9.5	8.0	5.9	5.0	4.0	4.1	4.6	6.2	6.6	6.6	14.0	6.7
24-Nov	3.1	2.1	2.5	3.0	3.3	1.8	1.3	2.3	5.5	6.4	4.1	2.5	1.6	2.8	1.3	2.1	0.0	0.8	3.3	2.8	2.8	3.7	3.0	5.5	6.4	2.8
25-Nov	5.5	3.8	3.6	2.7	1.3	0.4	0.2	0.5	2.1	6.6	6.3	4.7	3.8	4.1	2.4	1.7	2.7	0.6	0.3	0.1	0.1	0.1	0.0	0.2	6.6	2.2
26-Nov	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.6	4.8	5.3	6.1	7.1	6.9	9.1	6.8	9.7	8.8	9.8	7.7	6.8	7.9	4.8	3.1	7.0	9.8	4.7
27-Nov	7.8	5.0	4.3	4.2	1.5	2.8	3.9	2.3	4.9	2.7	2.1	3.3	2.2	1.4	1.1	0.3	0.0	0.2	0.0	0.0	0.1	0.1	0.1	0.7	7.8	2.1
28-Nov	0.2	0.3	0.4	0.5	0.0	0.0	0.0	0.1	0.1	0.6	0.8	1.6	1.3	2.9	2.6	1.6	1.6	1.0	0.1	0.7	3.0	0.4	2.3	0.4	3.0	0.9
29-Nov	0.1	0.1	0.1	0.1	0.5	0.4	0.3	0.3	3.2	9.8	9.8	11.0	9.6	8.0	10.2	8.5	7.9	4.2	5.2	7.8	6.0	6.6	7.2	7.0	11.0	5.2
30-Nov	1.8	6.3	3.8	3.7	3.2	3.7	3.3	2.7	4.9	6.3	7.7	7.6	6.2	4.9	5.3	4.6	3.6	3.5	6.0	4.7	2.6	3.7	3.6	6.2	7.7	4.6
																								Maximum Hour//Monthly Average	17.3	3.3
																								Total Hours In Month	720	
																								Valid Hours//Percent Data Captured	720	100.0%



# Meteorological Report

## The Doe Run Company

### Wind Direction

Site Name: Rivermines

Average Interval: 01 Hour

Units: Degrees

Sampling Frequency: 01 Second

2012	Hour																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24 Hour Avg
1-Nov	243	248	243	240	227	239	238	190	245	266	253	280	264	226	227	205	199	169	308	191	219	230	230	275	236
2-Nov	190	332	335	338	341	347	357	8	33	55	73	68	69	99	86	65	70	74	95	77	104	104	78	96	146
3-Nov	108	99	102	143	91	58	84	86	79	72	12	339	343	338	338	334	331	353	341	327	10	320	189	43	189
4-Nov	356	19	21	15	13	22	23	353	12	9	15	29	31	44	48	55	74	71	131	22	152	95	215	79	79
5-Nov	73	104	6	106	91	157	152	155	139	150	177	168	161	129	93	80	72	67	71	51	61	65	40	61	101
6-Nov	67	353	89	338	337	339	161	187	211	239	238	204	208	239	255	256	274	263	228	217	234	246	285	251	238
7-Nov	283	308	304	272	299	291	315	317	330	330	327	334	345	330	336	320	320	313	352	182	181	173	212	186	290
8-Nov	173	213	215	225	204	170	166	239	347	187	195	206	203	181	172	159	170	167	167	179	178	194	185	199	195
9-Nov	208	199	204	214	215	201	187	182	194	192	195	202	191	195	197	184	179	184	192	192	194	194	193	194	195
10-Nov	199	199	202	198	192	188	166	177	172	196	194	192	194	192	189	190	181	186	187	187	192	194	191	189	190
11-Nov	187	177	187	187	185	182	189	184	187	190	187	185	187	184	183	194	280	266	260	274	219	210	310	287	212
12-Nov	287	290	299	282	299	289	286	281	285	289	285	285	278	279	271	268	267	260	195	184	179	177	213	234	261
13-Nov	249	247	235	200	170	204	219	236	248	337	19	13	6	1	5	59	69	93	109	120	76	339	323	340	163
14-Nov	217	173	169	1	282	337	331	206	107	339	67	92	50	68	70	76	74	84	145	149	337	173	189	170	163
15-Nov	173	227	219	231	166	232	231	196	319	336	3	13	59	24	59	128	12	86	70	156	351	271	146	196	163
16-Nov	188	180	218	201	218	173	229	218	250	101	84	44	76	77	64	75	74	77	154	227	172	188	183	186	152
17-Nov	206	164	223	237	207	245	181	287	240	353	24	77	79	90	105	86	72	87	63	348	340	142	323	327	188
18-Nov	171	204	207	324	218	200	295	144	215	1	0	5	69	140	148	160	168	155	152	356	153	190	351	351	182
19-Nov	339	355	143	117	130	38	165	166	166	192	204	222	214	197	200	207	184	200	184	177	210	213	208	198	193
20-Nov	238	193	219	210	146	343	190	157	290	247	263	296	304	299	312	312	330	338	208	295	310	199	194	182	253
21-Nov	224	188	215	232	226	227	224	226	230	323	11	48	46	92	86	70	112	148	168	164	177	183	191	186	166
22-Nov	170	160	172	238	198	171	202	224	221	213	206	204	200	205	198	196	187	195	207	234	233	213	239	260	206
23-Nov	289	321	319	315	296	289	253	256	296	317	301	298	298	294	303	293	295	294	292	300	308	318	319	318	299
24-Nov	305	297	300	298	298	295	302	293	309	319	313	282	231	263	232	222	239	145	164	179	176	190	186	212	252
25-Nov	208	195	210	210	158	146	164	97	222	240	247	245	246	247	264	213	176	134	146	33	121	150	182	100	181
26-Nov	268	204	176	0	322	352	353	13	24	27	30	28	24	13	12	17	10	6	7	6	8	6	349	338	108
27-Nov	340	336	336	325	315	323	335	335	336	352	354	360	313	79	357	28	192	142	144	313	174	214	215	212	268
28-Nov	188	204	211	207	167	204	160	214	280	268	352	41	62	90	85	113	150	159	166	156	172	171	175	331	180
29-Nov	22	4	134	141	156	139	167	283	204	209	199	197	196	189	188	194	190	180	187	204	206	208	199	199	175
30-Nov	206	205	218	227	219	218	199	202	202	213	230	220	217	209	211	195	173	172	182	182	170	182	204	205	202
																								<b>Total Hours in Month</b>	720
																								<b>Valid Hours</b>	720
																								<b>Percent Data Captured</b>	100.0%



# Meteorological Report

## The Doe Run Company

ΣΘ

Site Name: Rivermines

Average Interval: 01 Hour

Units: Degrees

2012	Hour																								24 Hour Avg
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Nov	7.5	5.0	7.8	9.2	8.9	13.4	9.3	10.3	7.8	17.7	18.8	28.6	19.8	25.0	17.5	12.2	9.8	9.7	5.5	4.7	6.5	6.6	12.1	21.9	12
2-Nov	6.3	7.7	7.8	4.0	6.9	8.9	10.2	13.2	21.7	28.0	24.6	27.1	32.3	32.8	28.7	19.2	16.0	12.9	13.4	11.7	13.9	10.3	11.7	11.2	16
3-Nov	14.3	19.2	16.9	15.9	19.0	15.1	14.1	18.8	20.8	20.9	23.7	21.8	19.3	18.0	17.5	16.1	15.9	17.2	15.4	11.7	19.5	5.0	5.8	13.2	16
4-Nov	14.3	19.1	19.2	20.2	22.2	22.3	16.5	16.2	17.8	24.6	31.5	34.9	45.2	31.8	36.1	28.1	15.2	5.2	2.7	4.5	0.2	4.5	2.4	29.9	19
5-Nov	42.2	42.8	8.2	18.5	30.0	22.9	22.8	26.4	21.2	25.9	21.2	22.1	20.3	20.4	24.0	21.4	21.9	18.0	20.1	19.2	19.1	19.0	17.9	19.5	23
6-Nov	18.4	1.5	17.5	8.3	14.1	16.5	14.4	21.3	21.1	18.1	22.8	20.7	17.9	19.7	20.6	21.1	20.1	14.0	17.0	25.4	13.5	28.5	27.2	16.6	18
7-Nov	11.7	12.5	4.4	4.4	12.1	12.1	12.8	13.4	16.3	15.9	17.6	15.7	17.8	17.0	17.1	17.1	11.4	6.9	3.7	2.9	1.5	4.7	8.1	5.8	11
8-Nov	0.9	3.6	6.2	15.0	6.5	0.4	1.6	4.5	5.1	35.1	20.1	20.9	24.5	26.9	26.3	21.2	19.2	16.2	18.6	16.5	15.5	16.7	14.8	15.9	15
9-Nov	14.9	15.0	19.3	15.3	16.0	14.6	15.0	17.6	18.3	17.4	17.9	18.6	20.2	19.0	18.3	20.5	18.3	17.1	17.5	16.7	17.1	16.2	16.9	16.8	17
10-Nov	16.3	16.0	17.0	18.1	17.4	17.8	20.2	21.1	20.6	23.0	21.9	18.8	19.1	19.1	17.5	16.5	17.1	17.0	16.1	18.1	17.4	17.3	16.8	17.1	18
11-Nov	17.6	17.1	17.1	16.2	16.6	17.0	18.2	17.3	19.2	17.1	17.0	18.1	18.0	17.2	18.3	26.8	26.5	27.5	20.7	22.2	26.3	3.9	14.9	22.8	19
12-Nov	21.6	22.6	20.3	21.3	20.0	19.7	18.8	18.5	23.9	24.8	22.5	24.1	23.7	25.9	24.2	21.1	19.8	8.8	7.4	0.6	4.3	0.4	5.3	6.7	17
13-Nov	10.9	9.6	8.6	3.8	0.4	3.7	8.7	11.0	6.8	29.6	28.5	37.9	36.9	33.8	44.9	27.0	12.9	12.4	15.4	13.0	2.2	13.8	4.7	5.6	16
14-Nov	8.0	1.4	0.1	10.8	1.3	6.4	3.9	5.1	22.6	14.7	29.6	39.7	32.2	32.7	37.7	25.8	13.2	8.6	1.3	7.9	2.8	0.4	1.8	0.2	13
15-Nov	0.3	5.1	3.7	7.8	0.2	9.4	7.2	1.3	13.3	17.9	8.7	24.4	35.5	26.2	21.3	20.8	5.1	6.2	10.6	13.7	6.7	20.7	2.2	3.8	11
16-Nov	5.4	0.4	3.4	3.8	6.4	0.5	9.8	8.0	5.3	8.3	22.2	25.9	46.3	34.3	30.9	22.5	12.6	8.6	0.2	0.8	0.2	0.8	1.1	3.1	11
17-Nov	4.6	0.5	2.0	8.3	10.1	12.7	4.9	14.9	10.4	8.9	12.4	32.7	25.6	23.8	25.2	19.8	9.1	13.2	5.7	2.7	3.6	0.4	1.3	4.1	11
18-Nov	1.1	3.3	1.5	2.6	9.1	5.3	3.0	1.0	19.5	9.4	10.5	16.6	33.4	30.8	22.5	19.5	15.5	7.2	14.4	0.8	11.8	25.1	7.9	11.2	12
19-Nov	10.3	6.5	14.9	2.6	5.8	20.4	10.5	28.7	4.7	13.2	18.9	18.9	19.2	15.7	16.0	15.3	13.4	13.3	12.4	8.3	15.7	10.9	4.7	8.4	13
20-Nov	2.2	0.6	3.0	4.5	0.8	7.4	3.1	3.9	7.8	15.6	20.8	26.4	22.8	24.6	22.8	19.7	10.4	2.8	0.0	4.1	3.8	0.7	1.2	8.2	9
21-Nov	4.8	0.5	6.4	11.5	7.6	10.6	11.8	9.6	14.5	23.9	20.2	31.0	31.6	31.1	20.5	17.5	14.2	9.8	14.4	14.2	15.1	13.2	11.3	11.8	15
22-Nov	10.5	3.5	21.7	15.0	13.6	12.5	14.4	15.3	17.9	18.5	16.4	17.9	18.0	18.5	16.5	15.4	15.9	17.1	18.1	24.9	15.8	16.8	16.5	17.5	16
23-Nov	17.8	13.5	12.0	11.8	13.2	15.8	10.3	14.0	21.2	15.4	21.4	20.7	23.7	23.6	19.8	22.5	18.8	18.1	16.6	14.7	15.0	13.2	13.4	12.5	17
24-Nov	12.6	11.6	13.5	12.5	13.0	12.8	11.9	14.8	18.1	17.3	28.2	33.6	29.8	34.1	31.3	21.5	2.0	6.8	14.6	14.5	15.0	14.2	15.0	15.8	17
25-Nov	16.5	13.6	12.5	12.0	12.2	6.4	4.2	7.3	15.4	19.9	19.7	24.2	27.3	24.3	25.8	15.5	28.2	19.1	12.7	17.1	3.4	4.2	0.1	2.7	14
26-Nov	25.4	5.2	0.1	0.0	1.0	12.9	14.6	6.0	17.3	20.9	22.2	20.2	19.4	15.7	18.5	16.1	16.4	16.4	14.5	15.4	16.1	13.9	12.4	15.6	14
27-Nov	15.3	13.0	12.6	8.4	11.5	12.3	13.7	15.1	16.3	22.6	29.5	31.6	31.8	33.8	21.4	33.0	1.0	4.7	0.6	0.8	0.5	3.9	4.5	10.1	15
28-Nov	7.2	5.6	7.5	8.2	2.3	1.8	0.2	4.7	15.7	17.8	19.2	25.7	33.7	29.2	28.7	18.5	14.0	9.0	3.9	26.8	12.6	17.2	11.2	22.1	14
29-Nov	4.2	4.2	6.1	9.5	5.4	8.6	8.3	25.9	32.3	16.7	18.1	16.5	17.4	19.7	17.3	15.9	15.1	15.4	14.8	17.4	19.5	18.9	17.1	17.6	15
30-Nov	18.6	17.2	16.6	17.6	15.0	15.8	11.5	12.4	15.7	19.0	19.7	20.5	23.0	22.8	21.6	17.7	14.6	13.6	14.5	16.8	16.7	14.4	13.3	14.6	17
																							Total Hours in Month	720	
																							Valid Hours	720	
																							Percent Data Captured	100.0%	



# Meteorological Report

## The Doe Run Company

### Temperature

Site Name: Rivermines

Average Interval: 01 Hour  
Units: Deg. C  
Sampling Frequency: 01 Second

2012 Day	Hour																								24 Hour	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Avg
1-Nov	2	1	1	0	0	0	1	4	8	13	15	17	17	17	18	18	18	13	10	8	7	7	7	7	18.3	8.7
2-Nov	6	6	6	4	4	5	4	5	7	9	10	12	13	14	15	14	13	11	10	9	9	8	8	7	14.7	8.8
3-Nov	7	7	7	7	7	6	6	7	9	11	12	13	13	12	12	11	10	9	9	7	5	3	2	1	13.4	8.0
4-Nov	2	4	4	4	4	4	3	3	4	5	7	9	10	11	11	12	11	9	7	4	4	3	4	5	11.6	6.0
5-Nov	5	5	5	6	6	5	5	5	5	5	5	6	6	6	6	6	6	6	6	5	5	5	5	5	6.2	5.4
6-Nov	5	4	4	4	4	4	4	5	6	6	7	7	8	9	8	8	8	7	6	5	5	5	6	6	8.7	5.9
7-Nov	7	7	5	6	6	6	7	7	8	8	9	8	8	8	8	8	8	7	4	2	1	0	0	-1	8.6	5.7
8-Nov	-1	-2	-2	-2	-2	-3	-3	-1	3	8	11	12	13	14	14	14	13	11	10	9	9	10	10	10	14.3	6.4
9-Nov	10	10	10	11	12	12	12	13	15	16	17	19	20	22	22	22	21	19	18	17	17	17	16	16	22.5	16.1
10-Nov	16	15	16	16	15	15	14	15	16	19	21	22	24	24	24	23	21	19	18	18	18	18	18	18	24.0	18.5
11-Nov	17	17	17	17	16	16	17	17	17	18	19	19	19	19	18	16	12	11	10	10	10	10	7	5	19.4	14.7
12-Nov	3	2	1	1	0	-1	-2	-1	1	3	5	6	7	8	8	8	7	5	2	-1	-1	-2	-2	-3	8.2	2.3
13-Nov	-3	-3	-3	-4	-5	-5	-5	-3	1	4	6	8	9	10	10	10	8	6	5	4	2	0	-1	-1	9.7	2.1
14-Nov	-1	-2	-2	-2	-2	-1	-1	-1	1	3	6	7	8	9	10	9	8	6	1	0	-1	-2	-3	-3	9.6	1.9
15-Nov	-4	-4	-4	-5	-5	-5	-5	-4	-1	3	6	8	10	11	12	12	10	8	7	7	5	4	3	1	11.5	2.9
16-Nov	0	0	-1	-1	-2	-2	-2	-1	3	7	10	12	13	14	14	14	13	10	5	3	1	0	-1	-1	14.1	4.6
17-Nov	-2	-2	-3	-3	-3	-4	-4	-3	2	6	9	12	13	14	14	15	13	10	6	3	2	0	-1	-1	14.6	3.9
18-Nov	-2	-2	-3	-3	-3	-3	-4	-2	2	6	11	15	17	18	17	17	15	11	9	6	5	5	4	3	17.6	5.7
19-Nov	3	3	4	4	3	3	3	4	9	13	15	15	15	14	14	14	13	13	12	11	12	10	8	6	15.0	9.3
20-Nov	6	6	6	5	4	3	2	4	9	14	16	17	18	18	18	17	15	12	9	8	8	7	6	4	18.2	9.7
21-Nov	3	3	2	3	3	2	2	2	4	6	9	15	17	18	18	18	17	13	14	13	12	11	11	11	18.4	9.5
22-Nov	8	6	5	5	5	7	7	7	13	15	16	17	18	20	19	18	17	16	16	16	13	12	13	13	19.6	12.6
23-Nov	13	11	9	8	6	5	4	5	7	7	6	6	7	8	7	6	5	3	2	1	1	0	-1	-1	12.7	5.2
24-Nov	-2	-3	-3	-4	-4	-4	-5	-4	-2	-1	0	2	2	4	4	5	3	2	2	2	2	2	3	3	4.8	0.2
25-Nov	3	3	4	4	3	2	0	1	6	10	12	14	15	16	16	16	14	10	6	4	3	2	0	0	16.0	6.6
26-Nov	-1	-1	-1	-2	-2	-2	-1	0	3	5	7	8	9	7	6	6	5	5	4	4	2	1	1	1	8.6	2.9
27-Nov	0	-2	-3	-4	-5	-5	-5	-5	-3	-1	1	2	3	4	5	5	4	0	-2	-3	-4	-4	-4	-5	4.8	-1.4
28-Nov	-5	-6	-6	-6	-6	-6	-6	-5	-1	3	6	7	9	10	10	10	9	5	2	1	3	2	2	0	10.3	1.3
29-Nov	-2	-2	-2	-2	-2	-1	0	0	6	10	12	13	14	15	16	15	13	12	10	10	10	10	10	10	15.6	7.3
30-Nov	9	9	9	9	9	9	8	9	11	13	16	16	17	18	19	18	16	15	14	13	12	11	11	12	18.5	12.6
<b>Maximum Hour/Monthly Average</b>																								24.0	6.8	
<b>Total Hours in Month</b>																								720		
<b>Valid Hours</b>																								720		
<b>Percent Data Captured</b>																								100.0%		



# Meteorological Report

## The Doe Run Company

### Site Pressure

Site Name: Rivermines

Average Interval: 01 Hour

Units: mmHg

Sampling Frequency: 01 Second

2012 Day	Hour																								24 Hour		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Avg	
1-Nov	745	745	745	745	745	746	746	745	745	745	745	744	744	743	743	742	742	742	742	742	742	742	742	742	742	746	744
2-Nov	743	743	744	744	744	745	745	746	746	746	746	746	745	745	745	745	745	745	745	745	745	745	745	745	745	746	745
3-Nov	745	745	744	744	744	745	745	745	744	744	744	745	745	745	746	747	747	748	748	748	748	749	749	749	749	749	746
4-Nov	750	750	750	750	750	750	750	751	751	751	751	750	749	749	749	749	748	748	749	749	749	749	749	748	751	750	
5-Nov	749	748	748	747	747	747	747	747	747	746	746	747	747	746	746	746	746	746	747	747	747	747	747	747	747	749	747
6-Nov	747	746	746	746	746	746	746	746	746	746	746	746	745	744	743	743	743	744	744	744	744	744	744	744	747	745	
7-Nov	744	744	744	744	744	744	744	745	745	746	747	747	747	747	747	748	748	748	749	749	749	749	749	750	750	750	747
8-Nov	750	750	750	750	750	750	750	751	751	750	750	749	748	748	747	747	747	747	747	747	747	747	747	747	747	751	749
9-Nov	747	747	747	747	747	747	747	746	746	746	746	745	744	744	743	743	743	743	743	744	744	744	744	745	745	747	745
10-Nov	745	745	745	745	745	745	746	746	746	746	745	745	745	744	744	743	743	744	744	744	744	744	744	744	746	745	
11-Nov	744	744	744	743	743	743	743	744	744	743	743	742	741	741	740	741	743	743	744	745	745	745	745	747	747	743	743
12-Nov	748	748	749	750	750	751	752	753	753	754	754	754	753	753	752	753	753	754	754	755	755	756	756	756	756	756	753
13-Nov	756	756	757	757	757	757	758	758	758	758	757	757	756	755	755	755	755	755	756	756	756	756	756	756	756	758	756
14-Nov	756	756	756	756	756	756	756	757	757	757	756	756	755	754	754	754	753	753	753	753	754	754	754	754	754	757	755
15-Nov	754	754	754	754	754	754	754	754	754	755	754	754	753	753	752	753	753	753	753	753	753	753	754	754	754	755	754
16-Nov	754	754	755	755	755	755	755	756	756	756	756	755	755	755	754	754	755	755	755	755	756	756	756	756	756	756	755
17-Nov	756	756	756	756	757	757	757	757	757	757	757	756	755	755	754	754	754	754	754	755	755	755	755	755	755	757	756
18-Nov	755	755	755	755	755	755	755	755	754	754	754	753	752	752	752	752	752	752	752	752	752	753	753	753	752	755	753
19-Nov	752	752	752	752	752	752	752	752	752	751	751	751	750	750	749	749	749	749	749	749	749	749	748	748	748	752	750
20-Nov	748	748	748	748	747	747	748	748	748	748	747	747	746	746	746	747	747	748	748	749	749	749	750	750	750	750	748
21-Nov	750	750	750	750	751	751	751	751	752	752	752	751	750	749	749	749	749	749	749	749	749	749	749	749	749	752	750
22-Nov	748	749	748	748	748	748	748	747	747	747	747	746	745	745	744	744	744	744	745	745	746	746	746	747	749	746	
23-Nov	747	748	749	749	749	750	750	750	750	751	752	752	751	751	751	752	752	752	753	753	754	754	754	754	754	754	751
24-Nov	754	754	754	753	753	753	754	754	753	754	753	752	751	751	750	749	749	748	748	748	747	747	746	746	746	754	751
25-Nov	746	746	745	745	744	744	744	744	744	745	744	743	743	742	742	742	743	744	744	745	745	745	746	746	746	744	744
26-Nov	746	746	746	746	746	747	747	748	748	748	749	748	748	748	749	749	750	751	752	752	753	753	754	754	754	754	749
27-Nov	754	754	754	754	754	755	755	755	755	756	756	755	754	754	753	753	753	753	753	753	753	753	754	754	756	754	754
28-Nov	754	754	754	754	754	755	755	756	756	756	756	755	754	754	753	753	753	753	753	753	753	753	753	753	756	754	754
29-Nov	752	752	752	752	752	752	752	752	752	752	751	751	750	749	748	748	748	748	748	748	748	748	748	748	752	750	750
30-Nov	749	749	749	748	748	748	748	748	748	748	748	748	747	746	746	746	747	747	747	747	748	748	748	748	749	748	748
																								Maximum Hour//Monthly Average	758	749	
																								Total Hours In Month	720		
																								Valid Hours//Percent Data Captured	720	100.0%	

# Meteorological Report

## The Doe Run Company

### Precipitation

Site Name: Rivermines

Average Interval: 01 Hour  
Sampling Frequency: 01 Second

2012 Day	Hour																								24 Hour		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	Total	
1-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Nov	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.08	0.03	0.02	0.00	0.00	0.04	0.04	0.05	0.03	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.08	0.41
6-Nov	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.03	
7-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.32	0.28	0.32	0.15	0.11	0.12	0.08	0.12	0.02	0.32	1.54	
12-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.09	0.00	0.00	0.23	0.32	
23-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Maximum Hour//Monthly Total</b>																					0.32	2.30					
<b>Total Hours in Month</b>																					720						
<b>Valid Hours//Percent Data Captured</b>																					720	100.0%					

